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## NOTICE OF ALLOWANCE AND FEE(S) DUE

27076

7590

04/30/2009

DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT SUITE 3400 1420 FIFTH AVENUE SEATTLE, WA 98101

EXAMINER				
BOYCE, ANDRE D				
ART UNIT	PAPER NUMBER			
3623				

DATE MAILED: 04/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825.296	04/02/2001	Simon Jacobs	500743.01	4064

TITLE OF INVENTION: ORDER SCHEDULING SYSTEM AND METHOD FOR SCHEDULING APPOINTMENTS OVER MULTIPLE DAYS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (	orders and notification of r a) specifying a new corres	naintenance fees v pondence address	vill be ; and/o	mailed to the current r (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Feet	s) Transmittal, Th	is certi	ficate cannot be used f	or domestic mailings of the for any other accompanying nt or formal drawing, must
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DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT SUITE 3400			I he Stat addı tran	reby certify that thes Postal Service v	is Fee(	e of Mailing or Trans s) Transmittal is being fficient postage for firs ISSUE FEE address (1) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
1420 FIFTH AV SEATTLE, WA							(Depositor's name)
02.11122, 1112							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
09/825,296	04/02/2001	•	Simon Jacobs		•	500743.01	4064
TITLE OF INVENTION	: ORDER SCHEDULIN	IG SYSTEM AND METI	HOD FOR SCHEDULING	APPOINTMENTS	S OVE	R MULTIPLE DAYS	
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/30/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
ВОУСЕ, д	ANDRE D	3623	705-008000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a				
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or type	pe)			
PLEASE NOTE: Un recordation as set fort	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NO	data will appear on the p T a substitute for filing an	atent. If an assign assignment.	iee is i	dentified below, the de	ocument has been filed for
(A) NAME OF ASSI	GNEE		(B) RESIDENCE: (CITY	and STATE OR O	COUNT	TRY)	
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent): $\Box$	Individual 🖵 C	orporat	ion or other private gro	oup entity 🗖 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): ( <b>Ple</b> a	se first reapply a	ny pre	viously paid issue fee	shown above)
Issue Fee			A check is enclosed.				
*	No small entity discount p		☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
- Muvanec Order	n or copies		overpayment, to Depo	sit Account Numb	er	(enclose a	n extra copy of this form).
5. Change in Entity Sta	,	,	Dis Audionation In		TT DAD	TITY C 27 O	ED 1.27(-)/2)
••	s SMALL ENTITY state of Publication Fee (if rea		b. Applicant is no lon				ne assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	Coffice.				
Authorized Signature				Date			
Typed or printed nam	e			Registration N	No		
This collection of inform	nation is required by 37 C	CFR 1.311. The informati	on is required to obtain or r	etain a benefit by t	the pub	lic which is to file (and	d by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu/irginia 22313-1450. DC 313-1450.	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th D NOT SEND FEES OR	1.14. This collection is esty depending upon the individual Chief Information Office COMPLETED FORMS TO	imated to take 12 idual case. Any cor, U.S. Patent and DTHIS ADDRESS	minute ommen Trader S. SEN	s to complete, including ts on the amount of time mark Office, U.S. Depo D TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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09/825,296	09/825,296 04/02/2001 Simon Jacobs		500743.01	4064
27076 75	590 04/30/2009		EXAM	INER
DORSEY & WH	ITNEY LLP		BOYCE, A	ANDRE D
	PROPERTY DEPART	TMENT	ART UNIT	PAPER NUMBER
SUITE 3400 1420 FIFTH AVEI	NUE		3623 DATE MAILED: 04/30/2009	9
SEATTLE, WA 98	3101		DATE WITHELD: 04/30/200	_

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 762 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 762 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	09/825,296	JACOBS ET AL.
Notice of Allowability	Examiner	Art Unit
	Andre Boyce	3623
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Applicant's amendment	(OR REMAINS) CLOSED in this app or other appropriate communication <b>GHTS</b> . This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. <b>THIS</b>
2. X The allowed claim(s) is/are 29,31,33-41,43,45 and 46.		
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	et be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	ffice action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)	5 Notice of Informal D	otant Application
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5. ☐ Notice of Informal P</li> <li>6. ☐ Interview Summary</li> </ol>	• •
	Paper No./Mail Dat	ė
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. 🔲 Examiner's Amendn	letti Cottitiletti
Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ul><li>8.</li></ul>	nt of Reasons for Allowance
/Andre Boyce/		
Primary Examiner, Art Unit 3623		

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### **DETAILED ACTION**

### Response to Amendment

- This action is in response to Applicant's amendment filed December 23, 2008.
   Claims 1, 5, 6, 8, 10-18, 20, 22-24, 28, 47, 48 and 50 have been canceled. Claims 29, 31, 33-41, 43, 45 and 46 are pending.
- 2. The previously pending rejections to claims 1, 5, 24, 28, 47, 48 and 50 under 35 USC 112, second paragraph, have been withdrawn as moot.

The previously pending rejections to claims 1, 5, 6, 8, 10-18, 20, 22 and 23 under 35 USC 101 have been withdrawn as moot.

#### Reasons for Allowance

- 3. Claims 29, 31, 33-41, 43, 45 and 46 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

With respect to independent claims 29 and 36, none of the prior art of record, taken individually or in any combination, teach inter alia, validating the requested appointment against a number of scheduling constraints and against projected service resources for that window on the first day, including dividing a service area into a number of work areas, assigning a field service representative to each work area where each field service representative has an associated skill level, assigning at least one skill level to each work area, and assigning at least one window hierarchy to each work area, each window hierarchy corresponding to a set of

appointment windows and associated with at least one skill level assigned to the work area, the scheduling constraints having allowable appointment windows during which appointments are permitted to be scheduled; and scheduling the appointment in the specific appointment window on the first day when the validation indicates the appointment can be scheduled given the scheduling constraints and projected service resources, in response to the specific appointment window overlapping the allowable appointment window, time for the appointment scheduled in the specific appointment window proportionally to the amount of overlap between the specific appointment window and the allowable appointment window.

5. The prior art references most closely resembling Applicant's claimed invention are Lesaint et al (USPN 6,578,005), Powell et al (US 2001/0049619), and Babayev et al (USPN 5,615,121).

Lesaint et al disclose scheduling of a split task, wherein the task is appointed to a specific timeslot, and aggregation of windows are necessarily grouped into an all day appointment window, wherein morning and afternoon appointments equate to an all day appointment with no remaining basic appointment windows. In addition, Lesaint discloses if a task could overrun an overtime limit, then task is only scheduled if it can be split.

Powell et al disclose geographical distribution of service orders by service order type, threshold parameters including the geographical distribution of the service technicians and the technician's skill set, geographic distribution of service requests

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includes at least one service technician, wherein the service technician has an associated skill set, a service provider considering bands 20 of time windows, based upon technician skill level, and the service provider providing the customer a set of days and time windows in which the service provider can optimally fulfill the order.

Babayev et al disclose informing the customer service representative of the reason either validation failed (i.e., the customer preferred time interval cannot be accommodated due to previous customer request).

However, none of the cited prior art discloses validating the requested appointment against a number of scheduling constraints and against projected service resources for that window on the first day, including dividing a service area into a number of work areas, assigning a field service representative to each work area where each field service representative has an associated skill level, assigning at least one skill level to each work area, and assigning at least one window hierarchy to each work area, each window hierarchy corresponding to a set of appointment windows and associated with at least one skill level assigned to the work area, the scheduling constraints having allowable appointment windows during which appointments are permitted to be scheduled; and scheduling the appointment in the specific appointment window on the first day when the validation indicates the appointment can be scheduled given the scheduling constraints and projected service resources, in response to the specific appointment window overlapping the allowable appointment window, time for the appointment scheduled in the specific

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appointment window proportionally to the amount of overlap between the specific appointment window and the allowable appointment window.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre Boyce whose telephone number is (571)272-6726. The examiner can normally be reached on 9:30-6pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Beth Boswell can be reached on (571) 272-6737. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andre Boyce/ Primary Examiner, Art Unit 3623 April 27, 2009